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(54) PRODUCTION OF SYNTHETIC RESIN FOAM FROM FOAMING AGENT-CONTAINING EMULSION HAVING STORAGE STABILITY AND EMULSION THEREFROM

(57)Abstract:

PURPOSE: To improve an influence on environmental preservation, in producing synthetic resin foam by a polyisocyanate polyaddition process by using a foaming agent-containing emulsion as a foaming agent which is obtained by emulsifying a specific fluorinated compound with a specific emulsifier.

CONSTITUTION: A synthetic resin foam is produced by reacting (a) an organic polyisocyanate and/or a modified organic polyisocyanate with (b) at least one kind of high molecular compound having at least two reactive hydrogen atoms, and if necessary in the presence of (c) a cross-linking agent and/or a low molecular weight extension agent of chain length, (d) a foaming agent, (e) a catalyst, (f) an auxiliary and/or an additive by a polyisocyanate polyaddition process. As the foaming agent (d), an emulsion in which hydrocarbon fluoride, hydrocarbon perfluoride, or sulfur hexafluoride which have low boiling points and are hardly soluble or insoluble in (a), (b), and (c) are emulsified in (a), (b), (b) and (c), or (a) and (b). An oligomer acrylate containing a poly(oxyalkylene)residue and a fluoroalkane residue bound to it as side chains is used as the emulsifier.

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